

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. – 8. (Cancelled)
9. (Currently Amended) A resistivity tool having a length, comprising:  
~~a first current source at a first location along said length;~~  
~~a first current return at a second location along said length, the first current source and first current return form a first source-return pair, wherein current from the first current source returns at the first current return;~~  
~~a monitor electrode, said monitor electrode at a third location along said length, said third location the monitor electrode not between said first location and said second location a source-return pair.~~
10. (Original) The resistivity tool of claim 9, further comprising:  
~~a second current source at a third location along said length;~~  
~~a second current return at a fourth location along said length, wherein the second current source and second current return form a second source-return pair, wherein current from the second current source returns at the second current return;~~  
~~said monitor electrode not being at a location between said second current source and said second current return.~~
11. (Currently Amended) A resistivity tool having a length, comprising:  
~~a current source along said length; The resistivity tool of claim 9, further comprising:~~  
~~a second current source along said length;~~  
~~a current return along said length;~~

a third current source along said length;

a fourth current source along said length; and

a second current return along said length; and

a monitor electrode along said length;

wherein said monitor electrode is not between said first current source and said first current return, is not between said second current source and said first current return, is not between said third current source and said second current return, and is not between said fourth current source and said second current return.

12. (Currently Amended) The resistivity tool of claim 911, said monitor electrode being a first monitor electrode, further comprising:

a second monitor electrode at a same location with respect to said length as said first monitor electrode.

13. (Currently Amended) The resistivity tool of claim 911, wherein said resistivity tool is configured to measure resistivity around at least 60% of a generally circular borehole wall.

14. (Currently Amended) The resistivity tool of claim 9, said resistivity tool having a circumference and further comprising:

a second current source at a circumferentially different location ~~around said circumference~~ than said first current source;

a second current return at a circumferentially different location ~~around said circumference~~ than said second current source; and

a second monitor electrode at a circumferentially different location ~~around said circumference~~ than said first monitor electrode, said second monitor electrode at a location along said length not between said second current source and said second current return.

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15. (Original) The resistivity tool of claim 9, further comprising:
  - an arm;
  - a pad attached to said arm; and
  - said current source, current return and monitor electrode being mounted on said pad.
16. (Original) The resistivity tool of claim 9, said current source, current return, and monitor electrode being arranged linearly.
17. (Original) The resistivity tool of claim 9, said resistivity tool being a compensated resistivity tool.
18. (Original) The resistivity tool of claim 9, said resistivity tool being an uncompensated resistivity tool.
19. (Original) The resistivity tool of claim 9, said monitor electrode being a first monitor electrode, further comprising:
  - a second monitor electrode at a different location with respect to said length as said first monitor electrode.
20. (Original) The resistivity tool of claim 9, said resistivity tool measuring resistivities at multiple depths of investigation.
21. – 32. (Cancelled)
33. (New) A resistivity tool having comprising:
  - a first and second current source electrodes coupled to the tool;
  - a first current return electrode coupled to the tool, wherein current from the first and second current source electrodes returns at the first current return, each of the first and

second current source electrodes forms a source-return pair with the first current return;  
a third and fourth current source electrodes;  
a second current return electrode coupled to the tool, wherein current from the third and fourth current source electrodes returns at the second current return, each of the third and fourth current source electrodes forms a source-return pair with the second current return;  
a first monitor electrode coupled to the tool, wherein the monitor electrode couples to the tool outside a region between a source-return pair.

34. (New) The resistivity tool of claim 33 further comprising a second monitor electrode coupled to the tool, wherein the second monitor electrode coupled to the tool outside a region between a source-return pair.

35. (New) The resistivity tool of claim 34 wherein the second monitor electrode couples at the same elevation on the tool as the first monitor electrode, but at a different radial position.

36. (New) The resistivity tool of claim 34, said resistivity tool measuring resistivities at multiple depths of investigation.

37. (New) The resistivity tool of claim 34, further comprising:  
an arm;  
a pad attached to said arm; and  
said current source, current return and monitor electrode being mounted on said pad.